Better Artificial Limb Made for War Amputees

Soldiers with stumps or hands in the Korea fighting are timed with a machine which measures their speed and efficiency in using artificial limbs.

Advertisers of a few seconds saves the number of arm amputees now classed as total disabled. That means there'll be 24 fewer.

During and after World War II most of the amputees received artificial limbs which were a big help. But they usually were clumsy affairs. Modern artificial limbs of sprints were developed which are working wonders. The principle is simple. Instead of the straps and harness which were the amount of pressure with the amputee can apply to any object grasped.

The terminal device artificial hands is usually a hook attached by arm muscles themselves. A suction socket is sometimes employed to attach the limb to the stump, leaving the amputee better control of his arm and shoulder muscles.

The biggest improvement is that in artificial limbs which is driven through a hydraulic system by the motion of the body. Power is furnished by the body of each and controlled by a small valve.

Volcano a Relief Valve For Earth's Pressures

Scientists attribute the causes of volcanoes to the fact that rocks of the Earth's crust melt deep down and eventually get up out to that thing which is the only way for the great pressure of the overlying rocks to be relieved. Steam and gases are confined under pressure and tremendous pressure in the surrounding rock walls. If a vent is found to the surface, the gases and other associated gases will escape. Perhaps the first eruption will relieve the lava flows without violence, but with a large proportion of included gases the pressure will build up and break the surface with explosive force.

Hardened lava and accumulated ash may build up a cone which finally is sealed off by congealed lava. Perhaps underground pressure was built up again and there follows a new period of activity. Thus, it is seen, volcanoes are really safety valves that relieve gas pressures built up inside the Earth.

The Question of Iron

The American Iron and Steel Institute reports that the United States has access to an estimated iron ore reserve of 8,996,000,000 gross tons, including deposits as far away as Brazil, Venezuela and Labrador. Estimated ore reserves available to Russia amount to 6,000,000,000 gross tons and include only those deposits behind the iron curtain. The institute notes—in the interest of complete clarity—that the iron curtain, itself, is not included among Russia's iron ore reserves.

Colentific Instrument Charts Human Blood Flow

The newest surgical instrument is a machine which charts the flow of blood through the human body. Called a "angiograph," it is the result of X-ray research. The machine takes pictures as rapidly as motion pictures, although it can be set for slower speeds.

The angiograph is mixed injected to the blood stream of a patient just before the picture is taken. Then the machine takes a series of pictures showing the circulation of the blood and the condition of the arteries.

Army Needs All-Purpose Rubber For Operations

American chemists, engaged in the synthetic rubber program during World War II, have made the army with rubber that will withstand any kind of weather conditions from the hottest Arctic cold.

Because it is impossible to make rubber items for use in the field, the army requested that all equipment must be operative at temperatures ranging from 120 degrees above zero to 130 degrees below zero.

Items intended for troops in the Arctic must be operative even when freezing during extreme cold, yet indicating that they will withstand rubber items which, when in use, can be stored at temperatures of 140 degrees above zero. Even greater extremes than these have been experienced.

Four low-styrene modifications of the standard GR-S synthetic rubber — two of them made by the "cold rubber" process — or blends of them—fulfill the requirements of non-oil-resistant rubber for military purposes. The use of these types of rubber would also tend to relieve the nation's critical shortage of styrene.

Remarkable Record

Dade County, Florida, of which Miami is the governent seat, has a population of 495,830, and 202,220 automobile tags in 1950. In 1949 Dade County tailed Nassau County New York and Genessee County, Mich. In Nassau there was a car for each 3 family or 2.8 persons in Genessee for each 3 family or 3.1 persons. Dade County had a car for each 1.6 family or 3.3 persons in 1949.

Napalm Bomb Returns Fire Use To Battle Fronts

The incendiary warfare dates to the ancient Greeks and Persians who burned and was employed by the Germans and the United States Army developed the technique of using napalm bombs with terrific and deadly effect.

Commanders who have witnessed the holocausts wrought by napalm bombs declare that the explosive is the greatest thing for the morale of troops since the invention of the machine gun. Many a battle has been won by terror and confusion created by napalm.

The United States Army research center at Edgewood Arsenal, Md., developed napalm during the last war. Gasoline took the place of the rubber and other ingredients used in napalm. Gasoline took the place of the rubber and other ingredients used in napalm. Gasoline took the place of the rubber and other ingredients used in napalm